

PRINTER RUSH (PTO ASSISTANCE)

Application:	10/059,4	Examiner:	Mah	GAU:	<u>3676</u> 81-12-05	
From:	MR	Location:	(DC) FMF FDC	Date:	04-12-05	
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[RUSH] MESSAGE: Specification pages 12 line 18, 15 line 22 23 line 5 and 25 line 11, application numbers are missing. Please supply						
[XRUSH] RESPONSE:						
NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH. REV 10/04						

· 6 - 8 .

thereby to secure the cylinder, with its associated rotatable plug therein, to The respective posi-drive heads of these fixing screws the housing 38. extending through the casing part 11 to secure the rose in place are arranged to be uncovered and easily accessible within the casing part 11 when the assembly of casing part 11 and closure part 12 is removed from the plate 12a on the door in use, and with the bolt of the lock held retracted, without having to remove components of the lock from the casing part 11, thereby making cylinder removal and replacement much easier than with known arrangements. The plate 12 has holes 12c therein aligned with these fixing screws respectively. Once the casing part 11 is removed from the door, all that is required is an undoing of said uncovered fixing screws, the heads of which move into previously 'empty' parts of hole 38d and cut-away 38e, to release the rose 110, thereby uncovering the grub screw 38g. This is then undone, allowing the cylinder 39 and plug 40 to be changed at the outside of the casing part 11. The grub screw is then retightened, the rose replaced and the fixing screws tightened to secure the rose to the surface of side wall 13. This feature forms the subject of our UK Patent Application No. 0005753.9 our co-pending International Patent Application No. which 1637M) claims priority. On assembly the rose 110 can firstly be secured in place by screws 38h and the housing 38 secured in place thereafter.

- 12 -

2/3/8

The structure of the housing 38 within the casing, provides four further functions. Firstly, it has two further spaced arms 138a defining respective concave semi-cylindrical bearing surfaces 138b, the arms and the bearing surfaces being shown in Figures 24 to 29. The arms 138b extend away from the end wall 14 and the surfaces 138b are directed towards the interior

Figure 5 shows the position reached when the handle is in its fully pivoted position relative to the casing so that its nose part 52 engages the end wall 14, with the end portion 60 of the connecting member 49 being raised in the groove 54 to its innermost position in the casing where it lies adjacent the inner surface of the closure part 12. From these Figures it will be noted that from the inner side of the body part 45 there is a cylindrical projection 61 with a hemi-spherical head, whilst on the same axis, but at the opposite side there extends an identical but smaller diameter projection 62. This projection 62 is movable through a slot 63 in the side wall 13, and the inner surface of the side wall 13 is formed with a circular section pocket 64 around the slot 63, with a coiled compression spring 65 being received around the projection 62 and having its one end located in said pocket. In this way, the deadlock element 44 is biased to pivot inwardly into the casing, to the position shown in Figure 3, with the projection 62 acting as an indicator at the exterior of the side wall 13 of the lock to indicate whether or not the bolt 55 is deadlocked. As explained, pivoting of the handle from its Figure 3 to its Figure 5 position causes, by way of the intermediary of the connecting member 49 overcoming the force of spring 65, pivoting of the deadlock element 44 to its Figure 1 position, and accordingly, as will be explained, retraction of the bolt 55. The feature of the connecting member forms the subject of our UK Patent Application No. 0005756.2 from which our co-pending International Patent OS Application No. Pα 6801/00 746 (Our Ref. 37640M) claims priority.

The housing 38 further provides a pair of spaced inwardly directed arms 66 (Figures 16 to 18 and 28) and upstanding from the inner surface of the side wall 13 are a pair of spaced parallel guide walls 67 extending normal to the

are then accessible to allow the screws to be undone, in order to allow for removal of the rose, and easy replacement of the lock cylinder 39 and associated plug 40, this aspect of the invention, as mentioned, forming the subject of our UK Patent Application No. 0005753.9 and corresponding International Patent Application No. Our Ref. 37637M). It can be arranged that the retracted position of the bolt for access to screws 38h is the one when it is held by the member 74 in Figure 17.

In an outer edge of the arm portion 94 there is provided a cut-out 102 to allow for assembly of the spring which biases the bolt outwardly, into its guide 213. Finally a circular hole 103 is provided in the arm portion 94 adjacent its end thereof nearest the leading end part of the bolt, but clear of the other four plates 90 of the bolt. In conjunction with this hole 103, there is provided in the side wall 13 a circular section through opening 104 which at the inside surface of the side wall is provided through a boss 105. Extending through said opening 104 and into said boss is a snib 106 for retaining the bolt in its normal fully retracted position as shown in Figures 13 to 15. The snib 106 has a head 107 which is visible from the exterior of the side wall 13 and which allows the snib to be manually operable from inside of the door to which the lock is fitted, in use. From the head 107, the snib is stepped downwardly twice to define a central reduced diameter part 108 and an end further reduced diameter part 109, all the parts being about a common central axis. A circlip 110 is engaged in a groove of the snib at the junction between the parts 108 and 109, and a coil spring 111 is received around the central part 108, with its one end engaged against an underside of the head 107. The snib is fitted at the opening 104 and boss 105 as shown in Figures 13 to 15, so that the other end of the spring is engaged against a step at the 13 position and the greater projection of the head 107 at the outside of the side wall 13 indicates that the snib is no longer engaged, so that in closing the door, the bolt will automatically extend as described herein above. Although as described and shown, the snib holds the bolt in its Figure 17 retracted position, the snib could alternatively be arranged to hold the bolt in a position between the positions of the bolt in Figures 13 and 15 respectively. Accordingly the hole 100 and recess 101 would be re-positioned to allow access to screws 38h, although with posi-drive screw heads a screwdriver shank at an angle thereto might still be able to undo the screws. The feature of the snib to lock the retracted bolt against release on closing the door, forms the subject of our UK Patent Application No. 0005754.7 from which our co-pending International Patent Application No. 0005754.7 from which our co-pending International Patent Application No. 0005754.7 from which our co-pending International Patent Application No. 0005754.7 from which

Finally with regard to the components of the lock, reference is made to Figures 6 to 12 which show the cam 99, the driving surface 98 of which, as mentioned previously, acts, in operation, on the foot 96 to retract the bolt 55. As will be described, the handle operates, in use, from the inside of the door to retract the bolt by way of the further nose part 53 acting on the foot 97, whereas from the outside of the door key operation at the cylinder and plug assembly 28 moves this cam 99 and thus retracts the bolt by way of the driving surface 98 engaging the foot 96. In its rest position, shown in Figures 6, 8 and 9, a side surface thereof engages a stop 99a in the form of a lug or equivalent projecting inwardly from closure part 12 to prevent anticlockwise movement of the cam (as viewed in Figure 6) from its rest position.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application Serial No	10/009,435
Filing Date	November 9, 2001
Inventor	Brian Edward Cowper
Assignee	Bannam Patent Locks Limited
Group Art Unit	3676
Fxaminer	Michael J. Kyle
Customer No.	
Attorney Docket No	MA83-002
Title: Lock	•

Mail Stop Issue Fee Attn.: Ms. Patricia Small Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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- Amendment After Allowance Pursuant to 37 C.F.R. 1.312
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NUMBER OF PAGES IN FACSIMILE: ____11 ___

FEE DEFICIENCY

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Deepak Malhotra, Reg. No. 33,560 Telephone No. (509) 624-4276

PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/009,435 Filing Date TRANSMITTAL November 9, 2001 First Named Inventor Brian Edward Cowper FORM 3676 Examiner Name Michael J. Kyle (to be used for all correspondence after initial filing) Attorney Docket Number MA83-002 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(8) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Altached Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Petition Amendment/Repty Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please identify Terminal Disclaimer below): **Extension of Time Request** Certificate of Facsimile Transmission Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Amendment Under 37 CFR 1.312 to Issue Fee Branch as requested to correct omissions in the specification; Filed to expedite issuance of patent; Reply to Missing Parts/ Incomplete Application ATTENTION: MS. PATRICIA SMALL Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name WELLS ST. JOHN P.S. (Customer No. 021567) Signature Printed name Deepak Malhotra Reg. No. Date 33.560 10 4 **CERTIFICATE OF TRANSMISSION/MAILING** I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature

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Susan Wenzi (filed by Facsimile)

Typed or printed name

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No	10/009,435
	November 9, 2001
	Brian Edward Cowper
Assignee	Banham Patent Locks Limited
Group Art Unit	3676
Examiner	Michael J. Kyle
Attorney's Docket No	MA83-002
Title: Lock	

AMENDMENT AFTER ALLOWANCE PURSUANT TO 37 C.F.R. §1.312

To:

Mail Stop Issue Fee

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Sir:

The Office has requested the filing of this amendment to facilitate the publication of the above-referenced application.

Amendments to the Specification begin on Page 2 of this paper.

Remarks begin on Page 9 of this paper.

Amendments to the Specification:

Please replace the paragraph which starts on page 7 and extends to page 9, with the following amended paragraph:

The extended part of the front wall 15 is formed with a spaced pair of countersunk holes adjacent its upper and lower edges respectively, one of which 18, is shown in Figure 23, these countersunk holes receiving corresponding screws, such as screw 19 shown in Figure 23, for securing this extension of the front wall 15 in a corresponding depth rebate in the front edge surface of the door 10. In the front wall 15, at a position just inward of the plane defined at the open side of part 11, are a pair of spaced countersunk holes, one of which 20 is shown in Figure 23. At substantially the same level from the side wall 13 as the countersunk holes 20 is provided on the interior of the end wall 14 an integral lug 21 which has a circular-section hole 22 therethrough, the plate 12 having a cut-out to accommodate the lug 21. The outer surface of the lug is spaced from the outer free edge surface of the body part 11 by the thickness of a flat mounting plate 12a. This lug 21 is centrally disposed along the end wall 14, and the plate 12a has a tapped hole 23 adjacent one of its edges centrally along the length thereof, so that, as shown in Figure 23, with the plate 12a in place at the 'open' side of the main body part 11, the plate 12a can rest on the outer surface of the lug 21, at a position spaced from part 12, so as to lie flush at said 'open' side of the body part 11, with the hole 23 aligned with the hole 22 through the lug. Moreover, at its edge surface opposite to its edge surface adjacent which the hole 23 is provided, the plate has two integral bent down tags, one of which, 24, is shown in Figure 23. Each tag extends through a slot in part 12, and has a tapped hole therethrough this being shown as 25 for tag 24. With the plate 12a arranged, as described, flush at the outer 'open' side of the body part 11, the holes through the respective tags are aligned with the countersunk holes 20 to receive fixing screws, one of

which, 26, is shown in Figure 23. In use, as shown in Figure 23, a screw 27, captive in the hole 22 in the lug, has its shank engaged in the aligned tapped hole 23 in the plate 12a, with its free end received in a recess in the side surface of the door. Accordingly in this way the completed casing, comprising the main body part 11 and part 12, is secured to the mounting plate 12a, and by way of the screws 19 the completed casing is also secured to part of the front edge surface of the door. The fixing of the plate 12a to part 11 is particularly convenient as compared to prior art arrangements where the equivalent component is often a complicated pressing with tags, slots and the like for securement to the lock case. The plate 12a has two countersunk fixing holes therein, one spaced above the other, for wood screws to fix it to the side of the door. One hole 12b is shown in Figure 23. The fixing of the screw 27 forms the subject of our UK Patent Application No. 0005755.4 from which our co-pending International Patent Application No. PCT/GB01/00731 (Our Ref: 37639M) claims priority.

Please replace the paragraph which bridges pages 11 and 12, with the following amended paragraph:

The housing 38 also provides, adjacent said spaced arms thereof, respective fixing holes 38c therethrough, these holes being aligned with respective internally threaded bosses 13a upstanding from the inner surface of the side wall 13. By the use of fixing screws, the housing 38 is thereby secured to said side wall of the casing. This side wall has two holes 13c,13d therethrough at respective opposite sides of the part of the housing which extends outwardly from said side wall 13, these holes being on a diameter through the centre of the lock cylinder 39 and its associated plug 40. The part of the housing 38 within the casing is provided with one hole 38d aligned with the hole 13c in the side wall

13 and also a cut-away 38e which is aligned with said other 13d of said diametrically aligned holes in the side wall 13. The shanks of respective headed fixing screws 38h (Figures 19B and 19C) are received through said holes 13c, 13d in the side wall 13, with the heads received in said hole 38d and cut-away 38e respectively. The respective threaded ends of these fixing screws are threadedly received in blind bores in the inner surface of a rose 110 which is fitted around the part of the housing 38 projecting outwardly of the casing, this rose being pulled by said fixing screws against the outer surface of the side wall 13 so as to conceal from view, and to prevent access to, a grub screw hole 38f with associated grub screw 38g, extending through the housing 38 at the exterior of the casing, this grub screw engaging in a recess in the outer side of the cylinder 39, thereby to secure the cylinder, with its associated rotatable plug therein, to the housing 38. The respective posi-drive heads of these fixing screws extending through the casing part 11 to secure the rose in place are arranged to be uncovered and easily accessible within the casing part 11 when the assembly of casing part 11 and closure part 12 is removed from the plate 12a on the door in use, and with the bolt of the lock held retracted, without having to remove components of the lock from the casing part 11, thereby making cylinder removal and replacement much easier than with known arrangements. The plate 12 has holes 12c therein aligned with these fixing screws respectively. Once the casing part 11 is removed from the door, all that is required is an undoing of said uncovered fixing screws, the heads of which move into previously 'empty' parts of hole 38d and cut-away 38e, to release the rose 110, thereby uncovering the grub screw 38g. This is then undone, allowing the cylinder 39 and plug 40 to be changed at the outside of the casing part 11. The grub screw is then retightened, the rose replaced and the fixing screws tightened to secure the rose to the surface of side wall 13. This feature forms the subject of our UK Patent Application No. 0005753.9 from which our copending International Patent Application No. PCT/GB01/00722 (Our Ref. 37637M) claims priority. On assembly the rose 110 can firstly be secured in place by screws 38h and the housing 38 secured in place thereafter.

Please replace the first paragraph on page 15 with the following amended paragraph:

Figure 5 shows the position reached when the handle is in its fully pivoted position relative to the casing so that its nose part 52 engages the end wall 14, with the end portion 60 of the connecting member 49 being raised in the groove 54 to its innermost position in the casing where it lies adjacent the inner surface of the closure part 12. From these Figures it will be noted that from the inner side of the body part 45 there is a cylindrical projection 61 with a hemi-spherical head, whilst on the same axis, but at the opposite side there extends an identical but smaller diameter projection 62. This projection 62 is movable through a slot 63 in the side wall 13, and the inner surface of the side wall 13 is formed with a circular section pocket 64 around the slot 63, with a coiled compression spring 65 being received around the projection 62 and having its one end located in said pocket. In this way, the deadlock element 44 is biased to pivot inwardly into the casing, to the position shown in Figure 3, with the projection 62 acting as an indicator at the exterior of the side wall 13 of the lock to indicate whether or not the bolt 55 is deadlocked. As explained, pivoting of the handle from its Figure 3 to its Figure 5 position causes, by way of the intermediary of the connecting member 49 overcoming the force of spring 65, pivoting of the deadlock element 44 to its Figure 1 position, and accordingly, as will be explained, retraction of the bolt 55. The feature of the connecting member forms the subject of our UK. Patent Application No. 0005756.2 from which our co-pending International Patent Application No. PCT/GB01/00746 (Our Ref. 37640M) claims priority.

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WELLS ST JOHN PS

2008/011

Appl. No. 10/009,435 Amendment Under 37 CFR 1.312 Atty. Dkt. No. MA83-002

Please replace the paragraph which bridges pages 22 and 23, with the following amended paragraph:

The arm portion 94 has a hole 100 therethrough adjacent the foot 96, this hole 100 aligning, in a retracted position of the bolt, with one of the holes 12c and the holes 13b and 38d to provide access for a screwdriver shaft to one of the fixing screws 38h. In an outer edge of the other arm portion 95 is formed a circular section recess 101 which again, when the bolt is in said retracted position, aligns with the other of the holes 12c and the hole 13c and cut-away 38e, to allow screwdriver access to the other of the fixing screws 38h. In this manner with the bolt in a retracted position, and, as previously described, the assembly of lock casing part 11 and plate 12 removed from the door, the respective heads of both of these screws 38h holding the rose 110 are then accessible to allow the screws to be undone, in order to allow for removal of the rose, and easy replacement of the lock cylinder 39 and associated plug 40, this aspect of the invention, as mentioned, forming the subject of our UK Patent Application No. 0005753.9 and corresponding International Patent Application No. PCT/GB01/00722 (Our Rof. 37637M). It can be arranged that the retracted position of the bolt for access to screws 38h is the one when it is held by the member 74 in Figure 17.

Please replace the paragraph which bridges pages 24 and 25, with the following amended paragraph:

Although the hole 103 is of a size to receive the part 109 of the snib therein, it can be seen from Figure 13 that in its normal fully retracted state, i.e. with the nose part 52 of the handle 36 in engagement with the end wall 14, this hole 103 is out of alignment with the part 109 of the snib. However it will also be noticed that the foot 97 has itself not yet reached the inner surface of the end wall 14. Accordingly in order to operate the snib, it is first necessary to push the bolt rearwardly from its Figure 13 position by applying pressure to its leading end part. This moves the foot 97 into engagement with the inner surface of the end wall 14 as shown in Figure 14, thereby aligning the hole 103 with the part 109 of the snib, allowing the snib to be moved into said hole against its spring bias. Once the part 109 of the snib has been moved into the hole 103, the inwards pressure on the end of the bolt can then be released, and the spring acting on the bolt will move it back to its normal fully retracted position shown in Figure 15, with the part 109 of the snib retained in the hole 103, which, it will be appreciated, is somewhat oversized in relation to the diameter of the part 109 so as to allow for said movement of the bolt between its Figures 14 and 15 positions respectively. It can be seen that, if required, the free end of the part 109 can be provided with a narrow flange to define, with the circlip 110, a neck held in hole 103. Once the snib has engaged the bolt as shown in Figure 15, release of the snib can only be effected by again applying inwards pressure to the end of the bolt, thereby releasing engagement of the bolt at the edge of the hole 103 on the part 109. The spring 111 then automatically moves the released snib back to its Figure 13 position and the greater 05/02/2005 16:12 FAX 5098383424

WELLS ST JOHN PS

2010/011

Appl. No. 10/009,435 Amendment Under 37 CFR 1.312

Atty. Dkt. No. MAB3-002

projection of the head 107 at the outside of the side wall 13 indicates that the snib is no longer engaged, so that in closing the door, the bolt will automatically extend as described herein above. Although as described and shown, the snib holds the bolt in its Figure 17 retracted position, the snib could alternatively be arranged to hold the bolt in a position between the positions of the bolt in Figures 13 and 15 respectively. Accordingly the hole 100 and recess 101 would be re-positioned to allow access to screws 38h, although with posi-drive screw heads a screwdriver shank at an angle thereto might still be able to undo the screws. The feature of the snib to lock the retracted bolt against release on closing the door, forms the subject of our UK Patent Application No. 0005754.7 from which our copending International Patent Application No. PCT/GB01/00741 (Our Ref. 37638M) claims priority.

REMARKS

This is responsive to a April 28, 2005 telephone request by the Publications Division requiring the filing of an Amendment Pursuant to 37 C.F.R. §1.312 in order to correct omissions in the specification of the present application.

At pages 9, 12, 15, 23 and 25, Applicant referred to an attorney docket number, leaving the International Patent Application number blank. In order to expedite the issuance of this application, Applicant hereby files this Rule 312 Amendment in order to insert the corresponding International Patent Application numbers, in place of the attorney docket numbers.

It is respectfully requested that this Amendment Pursuant to 37 C.F.R. §1.312 be entered and amendment of the specification be made in order to expedite the issuance of the patent for this application.

If any other outstanding issues remain, it is requested that the undersigned be contacted by telephone.

Respectfully submitted,

Deepak Malhotra

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Facsimile: 509-838-3424

1ny 2, 2005